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EX05-005patentin.txt

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#### EX05-005patentin.txt

PCT/US2005/003483

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**WO** 2005/073725

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Tyr Pro Arg Asn Pro Arg Arg Glu Gly Ser Phe Pro Gln Gly Gln Leu 35 40 45

Ser Met Leu Gln Glu Lys Ile Asp His Leu Glu Arg Leu Leu Ala Glu 50 60

Asn Asn Glu Ile Ile Ser Asn Ile Arg Asp Ser Val Ile Asn Leu Ser 65 70 75 80

Glu Ser Val Glu Asp Gly Pro Lys Ser Ser Gln Ser Asn Phe Ser Gln 85 90 95

Gly Ala Gly Ser His Leu Leu Pro Ser Gln Leu Ser Leu Ser Val Asp 100 105 110

Thr Ala Asp Cys Leu Phe Ala Ser Gln Ser Gly Ser His Asn Ser Asp 115 120 125

Val Gln Met Leu Asp Val Tyr Ser Leu Ile Ser Phe Asp Asn Pro Asp 130 140

Gly Gly Val Trp Lys Gln Gly Phe Asp Ile Thr Tyr Glu Ser Asn Glu 145 150 155 160

Trp Asp Thr Glu Pro Leu Gln Val Phe Val Val Pro His Ser His Asn 165 170 175

Asp Pro Gly Trp Leu Lys Thr Phe Asn Asp Tyr Phe Arg Asp Lys Thr 180 185 190

Gln Tyr Ile Phe Asn Asn Met Val Leu Lys Leu Lys Glu Asp Ser Arg 195 200 205

Arg Lys Phe Ile Trp Ser Glu Ile Ser Tyr Leu Ser Lys Trp Trp Asp 210 · 215 220

Ile Ile Asp Ile Gln Lys Lys Asp Ala Val Lys Ser Leu Ile Glu Asn 235 240

EX05-005patentin.txt Gly Gln Leu Glu Ile Val Thr Gly Gly Trp Val Met Pro Asp Glu Ala Thr Pro His Tyr Phe Ala Leu Ile Asp Gln Leu Ile Glu Gly His Gln Trp Leu Glu Asn Asn Ile Gly Val Lys Pro Arg Ser Gly Trp Ala Ile Asp Pro Phe Gly His Ser Pro Thr Met Ala Tyr Leu Leu Asn Arg Ala Gly Leu Ser His Met Leu Ile Gln Arg Val His Tyr Ala Val Lys Lys His Phe Ala Leu His Lys Thr Leu Glu Phe Phe Trp Arg Gln Asn Trp Asp Leu Gly Ser Val Thr Asp Ile Leu Cys His Met Met Pro Phe Tyr Ser Tyr Asp Ile Pro His Thr Cys Gly Pro Asp Pro Lys Ile Cys Cys Gln Phe Asp Phe Lys Arg Leu Pro Gly Gly Arg Phe Gly Cys Pro Trp Gly Val Pro Pro Glu Thr Ile His Pro Gly Asn Val Gln Ser Arg Ala Arg Met Leu Leu Asp Gln Tyr Arg Lys Lys Ser Lys Leu Phe Arg Thr Lys Val Leu Leu Ala Pro Leu Gly Asp Asp Phe Arg Tyr Cys Glu Tyr Thr Glu Trp Asp Leu Gln Phe Lys Asn Tyr Gln Gln Leu Phe Asp Tyr Met Asn Ser Gln Ser Lys Phe Lys Val Lys Ile Gln Phe Gly Thr Leu Ser Asp Phe Phe Asp Ala Leu Asp Lys Ala Asp Glu Thr Gln Arg Asp Lys Gly Gln Ser Met Phe Pro Val Leu Ser Gly Asp Phe Phe Thr Tyr Ala Asp Arg Asp Asp His Tyr Trp Ser Gly Tyr Phe Thr Ser Arg Pro 

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EX05-005patentin.txt Phe Tyr Lys Arg Met Asp Arg Ile Met Glu Ser His Leu Arg Ala Ala Glu Ile Leu Tyr Tyr Phe Ala Leu Arg Gln Ala His Lys Tyr Lys Ile Asn Lys Phe Leu Ser Ser Ser Leu Tyr Thr Ala Leu Thr Glu Ala Arg Arg Asn Leu Gly Leu Phe Gln His His Asp Ala Ile Thr Gly Thr Ala Lys Asp Trp Val Val Val Asp Tyr Gly Thr Arg Leu Phe His Ser Leu Met Val Leu Glu Lys Ile Ile Gly Asn Ser Ala Phe Leu Leu Ile Leu Lys Asp Lys Leu Thr Tyr Asp Ser Tyr Ser Pro Asp Thr Phe Leu Glu Met Asp Leu Lys Gln Lys Ser Gln Asp Ser Leu Pro Gln Lys Asn Ile Ile Arg Leu Ser Ala Glu Pro Arg Tyr Leu Val Val Tyr Asn Pro Leu Glu Gln Asp Arg Ile Ser Leu Val Ser Val Tyr Val Ser Ser Pro Thr Val Gln Val Phe Ser Ala Ser Gly Lys Pro Val Glu Val Gln Val Ser Ala Val Trp Asp Thr Ala Asn Thr Ile Ser Glu Thr Ala Tyr Glu Ile Ser Phe Arg Ala His Ile Pro Pro Leu Gly Leu Lys Val Tyr Lys Ile Leu Glu Ser Ala Ser Ser Asn Ser His Leu Ala Asp Tyr Val Leu Tyr Lys Asn Lys Val Glu Asp Ser Gly Ile Phe Thr Ile Lys Asn Met Ile Asn Thr Glu Glu Gly Ile Thr Leu Glu Asn Ser Phe Val Leu Leu Arg Phe Asp Gln Thr Gly Leu Met Lys Gln Met Met Thr Lys Glu Asp Gly 

EX05-005patentin.txt Lys His His Glu Val Asn Val Gln Phe Ser Trp Tyr Gly Thr Thr Ile Lys Arg Asp Lys Ser Gly Ala Tyr Leu Phe Leu Pro Asp Gly Asn Ala Lys Pro Tyr Val Tyr Thr Thr Pro Pro Phe Val Arg Val Thr His Gly Arg Ile Tyr Ser Glu Val Thr Cys Phe Phe Asp His Val Thr His Arg Val Arg Leu Tyr His Ile Gln Gly Ile Glu Gly Gln Ser Val Glu Val Ser Asn Ile Val Asp Ile Arg Lys Val Tyr Asn Arg Glu Ile Ala Met Lys Ile Ser Ser Asp Ile Lys Ser Gln Asn Arg Phe Tyr Thr Asp Leu Asn Gly Tyr Gln Ile Gln Pro Arg Met Thr Leu Ser Lys Leu Pro Leu Gln Ala Asn Val Tyr Pro Met Thr Thr Met Ala Tyr Ile Gln Asp Ala Lys His Arg Leu Thr Leu Leu Ser Ala Gln Ser Leu Gly Val Ser Ser Leu Asn Ser Gly Gln Ile Glu Val Ile Met Asp Arg Arg Leu Met Gln Asp Asp Asn Arg Gly Leu Glu Gln Gly Ile Gln Asp Asn Lys Ile Thr Ala Asn Leu Phe Arg Ile Leu Leu Glu Lys Arg Ser Ala Val Asn Thr Glu Glu Glu Lys Lys Ser Val Ser Tyr Pro Ser Leu Leu Ser His Ile Thr Ser Ser Leu Met Asn His Pro Val Ile Pro Met Ala Asn Lys 

Ser Ser Leu Pro Cys Asp Ile His Leu Val Asn Leu Arg Thr Ile 1040 1045 1050

Phe Ser Pro Thr Leu Glu Leu Gln Gly Glu Phe Ser Pro Leu Gln

EX05-005patentin.txt

Gln Ser Lys Val Gly Asn Gly His Ser Asn Glu Ala Ala Leu Ile

1055 1060 1065

Leu His Arg Lys Gly Phe Asp Cys Arg Phe Ser Ser Lys Gly Thr 1070 1080

Gly Leu Phe Cys Ser Thr Thr Gln Gly Lys Ile Leu Val Gln Lys 1085 1090 1095

Leu Leu Asn Lys Phe Ile Val Glu Ser Leu Thr Pro Ser Ser Leu 1100 1110

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<213> Homo sapiens

<400> 6

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Val Ala Val Phe Ser Leu Tyr Leu Met Leu Asp Arg Val Gln His Asp 20 25 30

Pro Thr Arg His Gln Asn Gly Gly Asn Phe Pro Arg Ser Gln Ile Ser 35

Val Leu Gln Asn Arg Ile Glu Gln Leu Glu Gln Leu Leu Glu Glu Asn 50 55 60

His Glu Ile Ile Ser His Ile Lys Asp Ser Val Leu Glu Leu Thr Ala 65 70 75 80

Asn Ala Glu Gly Pro Pro Ala Met Leu Pro Tyr Tyr Thr Val Asn Gly 85 90 95

Ser Trp Val Val Pro Pro Glu Pro Arg Pro Ser Phe Phe Ser Ile Ser 100 105 110

Pro Gln Asp Cys Gln Phe Ala Leu Gly Gly Arg Gly Gln Lys Pro Glu 115 120 125

Leu Gln Met Leu Thr Val Ser Glu Glu Leu Pro Phe Asp Asn Val Asp 130 135 140

Gly Gly Val Trp Arg Gln Gly Phe Asp Ile Ser Tyr Asp Pro His Asp

EX05-005patentin.txt 145 150 160 Trp Asp Ala Glu Asp Leu Gln Val Phe Val Val Pro His Ser His Asn Asp Pro Gly Trp Ile Lys Thr Phe Asp Lys Tyr Tyr Thr Glu Gln Thr Gln His Ile Leu Asn Ser Met Val Ser Lys Leu Gln Glu Asp Pro Arg 195 200 Arg Arg Phe Leu Trp Ala Glu Val Ser Phe Phe Ala Lys Trp Trp Asp 215 Asn Ile Asn Val Gln Lys Arg Ala Ala Val Arg Arg Leu Val Gly Asn 240 225 Gly Gln Leu Glu Ile Ala Thr Gly Gly Trp Val Met Pro Asp Glu Ala 245 255 Asn Ser His Tyr Phe Ala Leu Ile Asp Gln Leu Ile Glu Gly His Gln 260 Trp Leu Glu Arg Asn Leu Gly Ala Thr Pro Arg Ser Gly Trp Ala Val 275 280 Asp Pro Phe Gly Tyr Ser Ser Thr Met Pro Tyr Leu Leu Arg Arg Ala 290 295 300 Asn Leu Thr Ser Met Leu Ile Gln Arg Val His Tyr Ala Ile Lys Lys 305 His Phe Ala Ala Thr His Ser Leu Glu Phe Met Trp Arg Gln Thr Trp 335 325

Asp Ser Asp Ser Ser Thr Asp Ile Phe Cys His Met Met Pro Phe Tyr

Ser Tyr Asp Val Pro His Thr Cys Gly Pro Asp Pro Lys Ile Cys Cys

Gln Phe Asp Phe Lys Arg Leu Pro Gly Gly Arg Ile Asn Cys Pro Trp 370 380 375

Lys Val Pro Pro Arg Ala Ile Thr Glu Ala Asn Val Ala Glu Arg Ala 385 390 400 395

Ala Leu Leu Leu Asp Gln Tyr Arg Lys Lys Ser Gln Leu Phe Arg Ser 405

Asn Val Leu Leu Val Pro Leu Gly Asp Asp Phe Arg Tyr Asp Lys Pro

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EX05-005patentin.txt 420 425 430 PCT/US2005/003483

**WO** 2005/073725

Gln Glu Trp Asp Ala Gln Phe Phe Asn Tyr Gln Arg Leu Phe Asp Phe 440 Phe Asn Ser Arg Pro Asn Leu His Val Gln Ala Gln Phe Gly Thr Leu 455 450 460 Ser Asp Tyr Phe Asp Ala Leu Tyr Lys Arg Thr Gly Val Glu Pro Gly 465 470 480 Ala Arg Pro Pro Gly Phe Pro Val Leu Ser Gly Asp Phe Phe Ser Tyr 490 Ala Asp Arg Glu Asp His Tyr Trp Thr Gly Tyr Tyr Thr Ser Arg Pro 510 500 505 Phe Tyr Lys Ser Leu Asp Arg Val Leu Glu Ala His Leu Arg Gly Ala 515 525 520 Glu Val Leu Tyr Ser Leu Ala Ala Ala His Ala Arg Arg Ser Gly Leu 530 Ala Gly Arg Tyr Pro Leu Ser Asp Phe Thr Leu Leu Thr Glu Ala Arg 545 550 560 Arg Thr Leu Gly Leu Phe Gln His His Asp Ala Ile Thr Gly Thr Ala 575 565 570 Lys Glu Ala Val Val Asp Tyr Gly Val Arg Leu Leu Arg Ser Leu 585 580 Val Asn Leu Lys Gln Val Ile Ile His Ala Ala His Tyr Leu Val Leu 595 Gly Asp Lys Glu Thr Tyr His Phe Asp Pro Glu Ala Pro Phe Leu Gln 615 Val Asp Asp Thr Arg Leu Ser His Asp Ala Leu Pro Glu Arg Thr Val 625 Ile Gln Leu Asp Ser Ser Pro Arg Phe Val Val Leu Phe Asn Pro Leu 645 650 Glu Gln Glu Arg Phe Ser Met Val Ser Leu Leu Val Asn Ser Pro Arg 665 660 Val Arg Val Leu Ser Glu Glu Gly Gln Pro Leu Ala Val Gln Ile Ser 675 Ala His Trp Ser Ser Ala Thr Glu Ala Val Pro Asp Val Tyr Gln Val

PCT/US2005/003483

EX05-005patentin.txt 690 695 700

WO 2005/073725

Ser Val Pro Val Arg Leu Pro Ala Leu Gly Leu Gly Val Leu Gln Leu 705 710 Gln Leu Gly Leu Asp Gly His Arg Thr Leu Pro Ser Ser Val Arg Ile 730 Tyr Leu His Gly Arg Gln Leu Ser Val Ser Arg His Glu Ala Phe Pro 745 Leu Arg Val Ile Asp Ser Gly Thr Ser Asp Phe Ala Leu Ser Asn Arg 755 760 Tyr Met Gln Val Trp Phe Ser Gly Leu Thr Gly Leu Leu Lys Ser Ile 770 Arg Arg Val Asp Glu Glu His Glu Gln Gln Val Asp Met Gln Val Leu 800 790 Val Tyr Gly Thr Arg Thr Ser Lys Asp Lys Ser Gly Ala Tyr Leu Phe Leu Pro Asp Gly Glu Ala Ser Pro Thr Ser Pro Arg Ser Pro Pro Cys 825 830 820 Cys Val Ser Leu Lys Ala Leu Ser Ser Gln Arg Trp Leu Arg Thr Met 835 840 845 Ser Thr Phe Thr Arg Arg Ser Gly Phe Thr Ile Cys Gln Gly Trp Arg 860 850 Gly Cys Leu Trp Thr Tyr His Pro Trp Trp Thr Ser Gly Thr Thr Ser 865 880 Thr Arg Ser Trp Pro Cys Thr Ser Ile Gln Thr Ser Thr Ala Arg Val 885 890 Gln Pro Arg Arg Tyr Leu Lys Lys Leu Pro Leu Gln Ala Asn Phe Tyr 905 910 Pro Met Pro Val Met Ala Tyr Ile Gln Asp Ala Gln Lys Arg Leu Thr 915 920 Leu His Thr Ala Gln Ala Leu Gly Val Ser Ser Leu Lys Asp Gly Gln 930 Leu Glu Val Ile Leu Asp Arg Arg Leu Met Gln Asp Asp Asn Arg 960 945 950 955 Leu Gly Gln Gly Leu Lys Asp Asn Lys Arg Thr Cys Asn Arg Phe Arg

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FYO5-OO5natentin tyt

**WO** 2005/073725

EX05-005patentin.txt 965 970 PCT/US2005/003483

975

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- Ser Thr Ser Tyr Pro Ser Leu Leu Ser His Leu Thr Ser Met Tyr Leu 995 1000
- Asn Ala Pro Ala Leu Ala Leu Pro Val Ala Arg Met Gln Leu Pro 1010 1020
- Gly Pro Gly Leu Arg Ser Phe His Pro Leu Ala Ser Ser Leu Pro 1025 1035
- Cys Asp Phe His Leu Leu Asn Leu Arg Thr Leu Gln Ala Glu Glu 1040 1050
- Asp Thr Leu Pro Ser Ala Glu Thr Ala Leu Ile Leu His Arg Lys 1055 1060 1065
- Gly Phe Asp Cys Gly Leu Glu Ala Lys Asn Leu Gly Phe Asn Cys 1070 1080
- Thr Thr Ser Gln Gly Lys Val Ala Leu Gly Ser Leu Phe His Gly 1085 1095
- Leu Asp Val Val Phe Leu Gln Pro Thr Ser Leu Thr Leu Leu Tyr 1100 1105 1110
- Pro Leu Ala Ser Pro Ser Asn Ser Thr Asp Val Tyr Leu Glu Pro 1115 1120 1125
- Met Glu Ile Ala Thr Phe Arg Leu Arg Leu Gly 1130